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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/781,239	02/13/2001	Keishi Sugimoto	56937-024	8013	
	7590 04/17/200 , WILL & EMERY	EXAMINER			
600 13th Street, N.W.			PARK, JUNG H		
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER	
			2619		
			MAIL DATE	DELIVERY MODE	
			04/17/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Applica	tion No.	Applicant(s)			
Office Action Summary		239	SUGIMOTO ET AL.			
		er	Art Unit			
	JUNG P	ARK	2619			
The MAILING DATE of this com Period for Reply	munication appears on t	he cover sheet with the d	correspondence address			
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the prografter SIX (6) MONTHS from the mailing date of this - If NO period for reply is specified above, the maxin - Failure to reply within the set or extended period for Any reply received by the Office later than three meanned patent term adjustment. See 37 CFR 1.704	HE MAILING DATE OF Taisions of 37 CFR 1.136(a). In no exact communication. The statutory period will apply and reply will, by statute, cause the apportunity after the mailing date of this exact control of the statute.	THIS COMMUNICATION event, however, may a reply be tir will expire SIX (6) MONTHS from oplication to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s	Responsive to communication(s) filed on <u>27 December 2007</u> .					
2a)⊠ This action is FINAL .	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in cond	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the p	ractice under <i>Ex parte</i> C	Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims						
 4) Claim(s) 2,4-7,9,13-17 and 19-21 is/are pending in the application. 4a) Of the above claim(s) 1,3,8,10-12, and 18 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 2,4-7,9,13-17 and 19-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Rev Information Disclosure Statement(s) (PTO/SE Paper No(s)/Mail Date 	·	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Response to Remark

- 1. This communication is considered fully responsive to the Amendment filed on 12/27/2007.
 - a. An objection to the claims is withdrawn since it has being amended accordingly.
 - b. The rejection under 112 2nd is withdrawn.
 - c. The examiner acknowledges that claims have not been changed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2, 4-7, 20, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubota et al. (US 6353613, "Kubota").

Regarding claim 2, Kubota discloses a digital broadcast receiving apparatus (device for receiving a transport stream, see col.2, ln.59-64) comprising:

- a packet-overwriting device (SI/PSI regenerator, see 67 fig.15) capable of avoiding unnecessary-packet areas (unnecessary parts are deleted to combine the PSI and SI into a single, see col.14, ln.15-20) corresponding to unnecessary packet identifiers (PIDs) (avoiding overlapped PID values within PSI and SI, see col.14, ln.15-20) in a first transport stream (TS) (1st TS, see S53 fig.15 and col.14, ln.5-6) using packets

corresponding to necessary PIDs in a second TS (2nd TS, see S37, fig.15; col.14, ln.15-20; and col.13, ln.12-18).

Kubota does not explicitly disclose the limitation of "overwriting." However,

Kubota discloses the method of avoiding unnecessary information and avoiding overlap
of the PID values and deleting unnecessary parts. That is, some of the unnecessary
parts are deleted and/or overwritten to combine the PSI and SI into a single. Therefore, it
would have been obvious to one of ordinary skill in the art at the time of applicant's
invention to overwrite some unnecessary information with necessary information in order
to avoid transmission of unnecessary information for processing efficiently at receiving
device.

Regarding claim 4, Kubota discloses, "wherein when packets to be multiplexed by the overwriting (multiplexing of S37 and S53 fig.15), the packets in at least one of the first and second TSs are rewritten to make the packets to be different from one another (PSI and SI into a single, see col.14, In.15-20)."

Regarding claim 5, Kubota discloses, "wherein PIDs of packets in the first TS where packets are rewritten through the overwriting are rewritten (avoiding overlap of the PID, see col.14, ln.15-20)."

Regarding claim 6, Kubota does not explicitly disclose, "wherein NULL-packet areas are the unnecessary-packet areas corresponding to the unnecessary PIDs and are given priority." However, Kubota discloses the null packet generator to supply the lack of transmission capacity (see col.14, ln.32-37) and the TS size is fixed as shown in

Fig.1. Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to apply the NULL packet generator to fill-up the unnecessary packet areas corresponding to the unnecessary PIDs and give priority to supply the lack of transmission capacity because it is inoperable without filling up the unnecessary fields.

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Regarding claim 7, it is a claim corresponding to claim 1, except the limitations of "unnecessary packet detecting means, necessary packet extracting means, and packet-overwriting means" which are inherently existed for each of the functions as rejected in claim 1 and is therefore rejected for the similar reasons set forth in the rejection of claim 1.

Regarding claim 20, it is a claim corresponding to claim 1, except the limitation of "registering (inherent to register, see fig.1 and col.14, ln.15-20)" and is therefore rejected for the similar reasons set forth in the rejection of claim 1.

Regarding claim 21, it is a claim corresponding to claim 1, except the limitation of "computer-readable medium". However, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to use software-based machines. The benefit using computer-readable medium is that program can be changed and upgraded for new features easily and is therefore rejected for the similar reasons set forth in the rejection of claim 1.

Allowable Subject Matter

4. Claim 17 are allowed.

5. Claims 9, 13-16, and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments filed 12/27/2007 have been fully considered but they are not persuasive.

At page 10, with respect to claims 2, 7, 20, and 21, applicant argues that Kubota fails to teach or suggest "overwriting unnecessary packets in one TS using necessary packets from another TS."

In reply, Kubota discloses a packet identifier (PID) byte in the packet header as shown in Fig.1 and old PID values are replaced with new PID values as described in col.14, ln.50-58 and Fig.16. For example, PID value of the video TS packet of the transport stream (TS) is modified as "0X0108" from "0x0100". That is, replacing of old PID value with new PID value in the header is equivalent to overwriting unnecessary packets in TS. Therefore, the examiner respectively disagrees.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung Park whose telephone number is 571-272-8565. The examiner can normally be reached on Mon-Fri during 6:15-3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Edan Orgad/

Supervisory Patent Examiner, Art Unit 2619